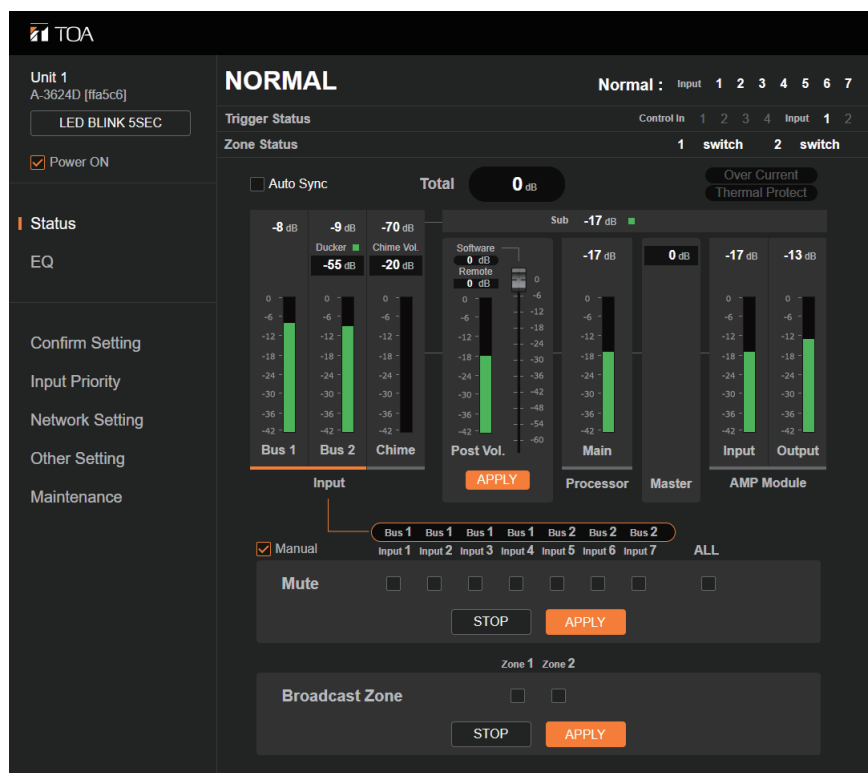


MIXER AMPLIFIER

A-3606D, A-3612D, A-3624D, A-3648D

(Ver. 1.06)



This manual applies to the A-3600D series amplifier of which firmware version is 1.06.01 or later. The firmware version can be checked on the browser.

Thank you for purchasing TOA's Mixer Amplifier.

Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

TABLE OF CONTENTS

1. SETTING OUTLINE	3
2. SYSTEM REQUIREMENTS	3
3. HANDLING PRECAUTIONS	3
4. THE DUCKER FUNCTION AND THE PRIORITY BROADCAST FUNCTION	4
5. CONNECTIONS	4
5.1. When You Have Set an Arbitrary IP address	4
5.2. When an IP address Has Been Automatically Acquired	5
6. SWITCHING THE SCREEN	7
6.1. Common Operation on Each Screen	7
6.2. Refreshing the Menu Bar	8
6.3. Contents of Each Screen	9
7. STATUS SCREEN	10
7.1. Display Contents of Each Section	10
7.2. Software Master Volume Setting	14
7.3. Manual Mode	15
8. EQ SCREEN	17
9. CONFIRM SETTING SCREEN	19
10. INPUT PRIORITY SCREEN	21
10.1. When Displaying the Setting Contents	21
10.2. When Editing the Setting Contents	23
11. NETWORK SETTING SCREEN	25
11.1. Sending the Edited Contents to This Unit	26
12. OTHER SETTING SCREEN	27
13. MAINTENANCE SCREEN	29
13.1. Updating the Firmware	31
13.2. Exporting the Log File	31
13.3. Importing and Exporting the Configuration File	32
14. PRIORITY BROADCAST FUNCTION	33
14.1. Priority Broadcast	33
14.2. Priority Broadcast Mode	33
14.3. Emergency Broadcast	35
14.4. Normal Broadcast	35
14.5. Relationship between Priority Broadcast by Control Input/Emergency Broadcast and Power ON/OFF State	35
14.6. Factory Default Settings	36
14.7. Setting Examples and Operation Images	37
15. OPERATION IMAGE OF SPEAKER ZONE SELECTION	40
16. BLOCK DIAGRAM	41

1. SETTING OUTLINE

You can perform the settings and the displays shown below via the network by connecting a PC to the Mixer Amplifiers A-3606D, A-3612D, A-3624D, A-3648D (herein referred to as this unit) from the browser *1.

- Status display*2 (See [p. 10.](#))
- EQ parameter control and display (See [p. 17.](#))
- Setting content display (See [p. 19.](#))
- Input priority setting and display (See [p. 21.](#))
- Network setting (See [p. 25.](#))
- Account setting (See [p. 25.](#))
- Other setting (See [p. 27.](#))
- Firmware update (See [p. 31.](#))
- Log output (See [p. 31.](#))
- Importing and exporting the configuration file (See [p. 32.](#))

*1 For the browsers that have been verified to work, refer to "SYSTEM REQUIREMENTS" below.

*2 If the volume value is set to the minimum on this screen, no sound is output even if you set the unit's front-mounted volume control knobs to the maximum position. Also, the volume value set on this screen becomes the maximum setting value, disabling the unit's front-mounted volume control knobs to increase the volume value exceeding this value.

For details, refer to "[Software Master Volume Setting](#)" on [p. 14.](#)

2. SYSTEM REQUIREMENTS

The table below shows the software operating conditions for the PC. Use the hardware that can run this software.

OS	Windows 10 (64bit)
Browser	Microsoft Edge, Google Chrome, Mozilla Firefox

Notes


- Microsoft Edge is the registered trademark of Microsoft Corporation in the United States and other countries.
- Google Chrome is the trademark of Google LLC in the United States and other countries.
- Mozilla and Firefox are the trademark of The Mozilla Foundation in the United States and other countries.

Tip

In this manual, each procedure is described with the screenshots of Google Chrome.

3. HANDLING PRECAUTIONS

- In this system, settings and control of the unit are performed on a PC via LAN (Local area network). It is not possible to perform them via the Internet.
- Some operations differ depending on this unit's power ON/OFF state. The table below shows the relationship between the power ON/OFF state and the corresponding operation.

Power state	LED lighting state		Normal broadcast		Priority broadcast/ Emergency broadcast	Web access
		CPU RUN	From Speaker output	From Recording output		
Not energized	Unlit	Unlit	Disabled	Disabled	Disabled	Disabled
Energized (Power turned OFF)	Unlit	Lit	Disabled	Disabled	Occasionally possible (Power is temporarily turned ON.)	Enabled
Energized (Power turned ON)	Lit	Lit	Enabled	Enabled	Enabled	Enabled

- Security Measures When Using the Network
 - Provide the best possible security measures for the network under your own responsibility. TOA Corporation takes no responsibility for any damages or loss caused by the network security problems such as illegal access.
 - It is advised to change the default User ID and Password to prevent illegal access to this unit. For their setting method and details, refer to ["NETWORK SETTING SCREEN" on p. 25](#).
 - Keep your password safe.

4. THE DUCKER FUNCTION AND THE PRIORITY BROADCAST FUNCTION

This unit is provided with Ducker function and Priority broadcast function that decrease the output level of other broadcasts while a specific broadcast is being made.

A Ducker function refers to the function to place a priority order between the audio signal groups divided into 2 groups. Use this function to make a simple usage such as to decrease the BGM level when making microphone announcement while the BGM broadcast is in progress.

For the details of the Ducker function, refer to the operation manual supplied with this unit.

A Priority broadcast function is the function to assign one of 6 priority levels to each broadcast content. Use this function to make a complicated usage compared with the Ducker function such as to select the audio signal to mute. For the details of the Priority broadcast function, refer to ["PRIORITY BROADCAST FUNCTION" on p. 34](#).

5. CONNECTIONS

The procedure in the case when you have set an arbitrary IP address differs from that in the case when an IP address has been automatically acquired, both settings being performed on the Network setting screen ([p. 25](#)).

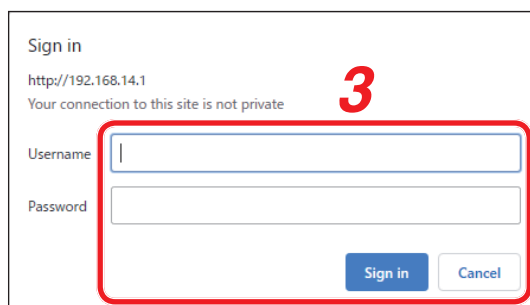
5.1. When You Have Set an Arbitrary IP address

Step 1. Connect the unit and the PC used for settings to network.

Step 2. Run the browser on the PC, then enter unit's IP address in the address field.

Example: 192.168.14.1

A login screen is displayed.



Tip

IP address is factory-preset to "192.168.14.1."

Step 3. Enter user name and password, then click the "Sign in" button.
A status screen is displayed.



Click the screen name in the menu bar located at the left side of the browser screen to switch to the necessary screen. (See ["SWITCHING THE SCREEN" on p. 7.](#))

Notes

- Never connect the unit from multiple PCs simultaneously.
- Never connect the unit from multiple browsers simultaneously.

Tip

The default settings of the user name and password are as follows.

User name: admin

Password: guest

5.2. When an IP address Has Been Automatically Acquired

Note

This procedure cannot be used if your pc's OS is earlier than Windows 10.

Step 1. Connect this unit and the PC used for settings to the network.

Step 2. Open the Explorer screen on the PC.

Step 3. Click "Network" in the list located on the left side of the screen to open it.

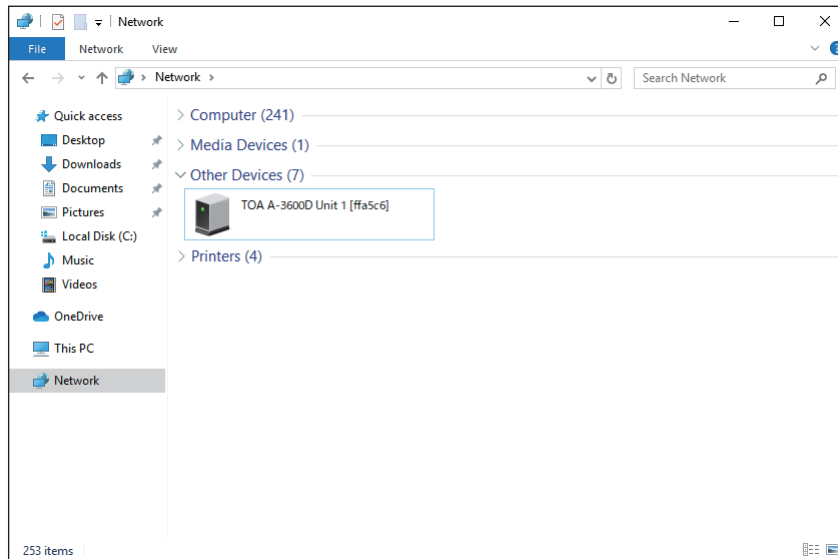
Step 4. Click the displayed icon of this unit.

Tip

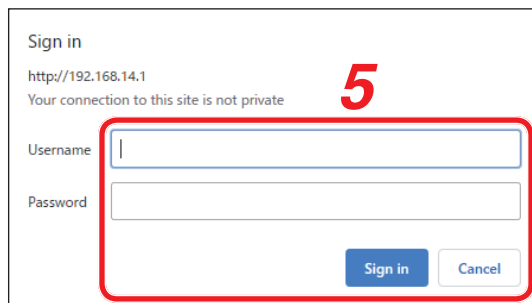
This unit's icon name is as follows.

TOA A-3600D + (Device name entered in the Network setting) + (the last 3 bytes of this unit's MAC address)

Example: TOA A-3600D Unit 1 [ffa5c6]



A login screen is displayed.



Step 5. Enter user name and password, then click the "Sign in" button.
A status screen is displayed.



Click the screen name in the menu bar located at the left side of the browser screen to switch to the necessary screen. (See "SWITCHING THE SCREEN" on [the next page](#).)

Notes

- Never connect the unit from multiple PCs simultaneously.
- Never connect the unit from multiple browsers simultaneously.

Tip

The default settings of the user name and password are as follows.

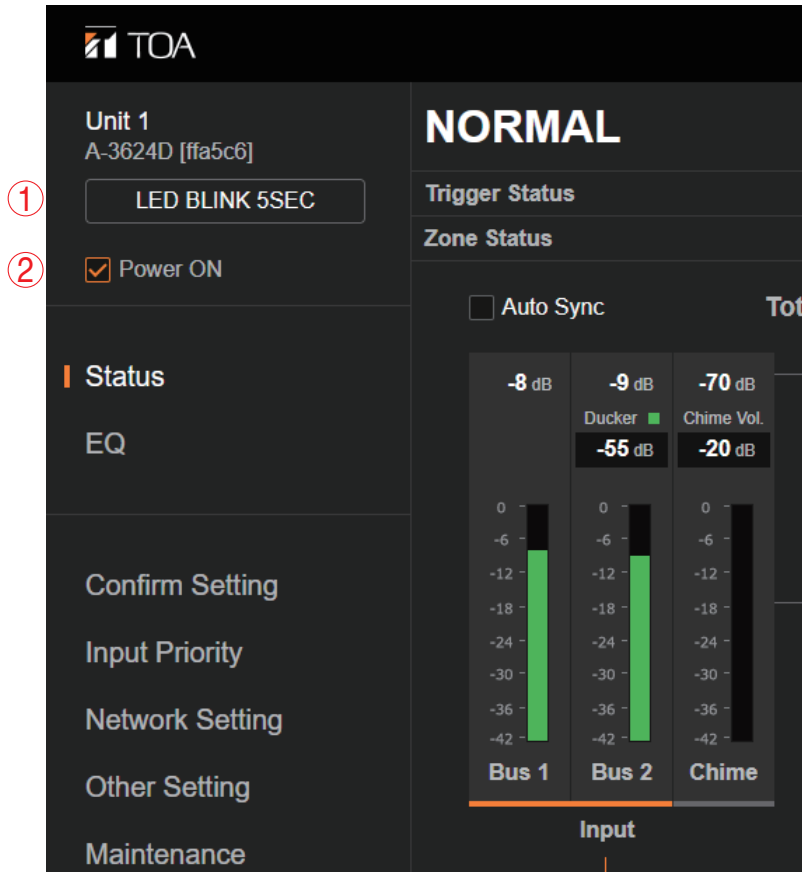
User name: admin

Password: guest

6. SWITCHING THE SCREEN

After logging in (p. 4) to this unit, click the screen name in the menu bar at the left side of the browser screen to switch to the corresponding screen. Six screens are provided in total, on each of which you can perform necessary settings and operations.

6.1. Common Operation on Each Screen



(1) [LED BLINK 5 SEC] button

Click this button to identify the amplifier when 2 or more A-3600D Series mixer amplifiers are connected to the network.

Clicking this button causes the LAN CONNECT indicator on the currently logged-in A-3600D Series mixer amplifier to flash for 5 seconds.

(2) Power ON checkbox

Turns this unit's power on or off.

Checking or unchecking this checkbox causes the power to turn on or off, respectively.

The Power remote control interlock output terminal is closed while the unit's power is ON, and open while the unit's power is OFF.

Note

You can neither check nor uncheck the checkbox while the priority broadcast or the emergency broadcast is in progress. (See "PRIORITY BROADCAST FUNCTION" on p. 34.)

Tip

Either confirmation dialog shown below is displayed when you click the checkbox. Then, click the OK button.

[When checking the checkbox]

192.168.14.1 says

When checked, the power of the device is turned on. The broadcast may start, are you sure you want to turn on the power?

OK Cancel

[When unchecking the checkbox]

192.168.14.1 says

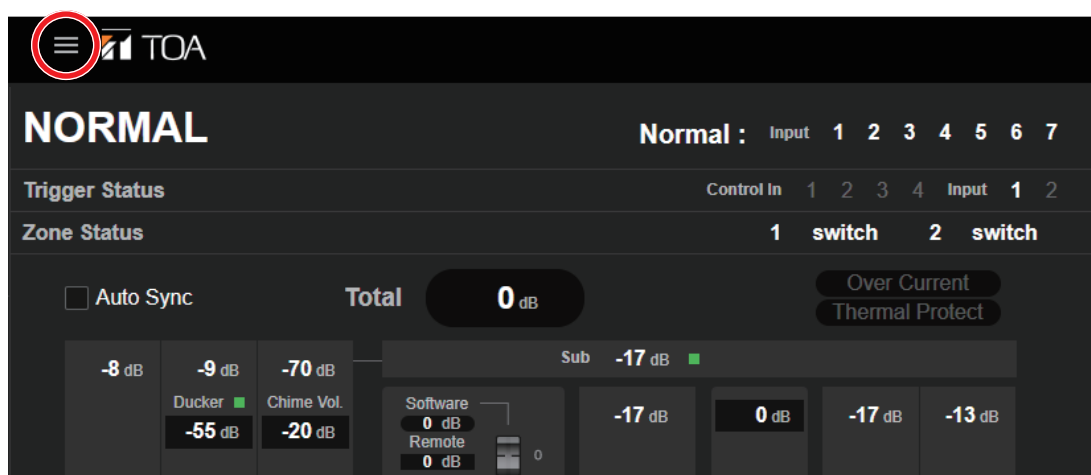
Uncheck the box to turn off the device. The broadcast may be interrupted. Are you sure you want to turn off the power?

OK Cancel

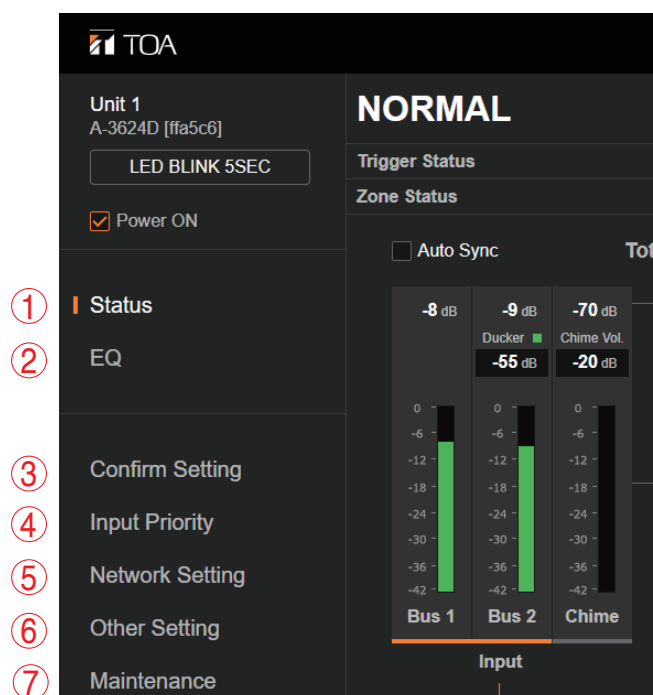
6.2. Refreshing the Menu Bar

The menu bar located at the left side of the screen may not be displayed depending on the size of the browser screen.

In this case, click the icon at the upper left corner of the screen to refresh the menu bar.



6.3. Contents of Each Screen



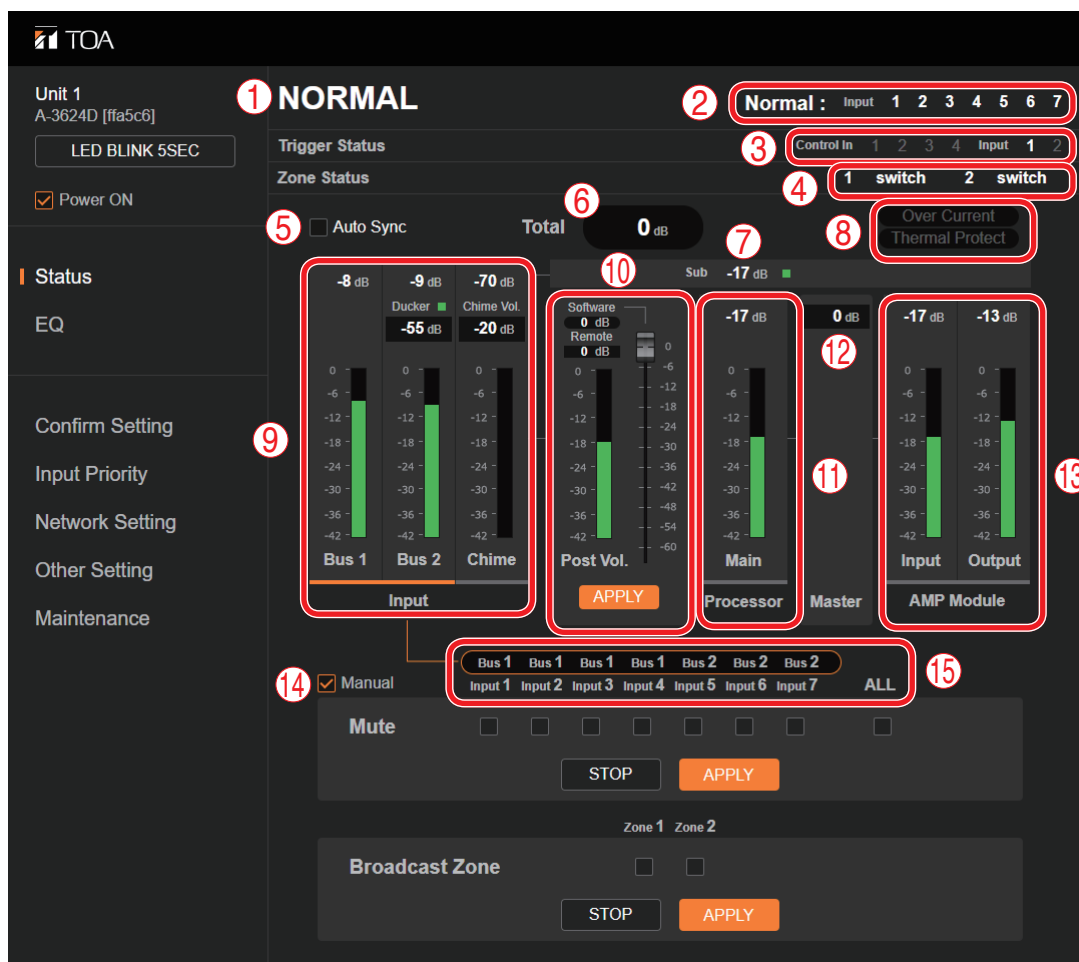
	Name	Content	Reference page
(1)	Status	Displays the current broadcast status. Also, sets the software master volume value and switches the mode between Standard and Manual.	the next page
(2)	EQ	Performs the equalizer's parameter setting. Also, allows you to confirm the operation contents of the Dynamic feedback filters function.	p. 17
(3)	Confirm Setting	Displays the set contents of this unit's switches.	p. 19
(4)	Input Priority	Displays the set contents of the priority broadcast. Also, allows you to set or edit the priority broadcast.	p. 21
(5)	Network Setting	Performs the network setting and the user account setting.	p. 25
(6)	Other setting	Performs the set value retention ON/OFF of the software master volume and the zone control method setting.	p. 27
(7)	Maintenance	Performs the firmware update and exports the log file.	p. 29

7. STATUS SCREEN

The current broadcast status is displayed on the Status screen.

Also, you can perform the software master volume setting (p. 14) and the operation in manual mode (p. 15).

7.1. Display Contents of Each Section



(1) Status display

Displays this unit's operation status.

EMERGENCY: Emergency broadcast in progress

PRIORITY: Priority broadcast in progress

NORMAL: Normal broadcast in progress

POWER OFF: Power is turned off.

For details, refer to "PRIORITY BROADCAST FUNCTION" on p. 34.

(2) Priority trigger display

Displays the name of the highest priority trigger of the activated triggers and its mute setting contents. The highlighted inputs are set to be broadcast.

When no trigger is input, the normal broadcast (p. 35) setting will be displayed.

For the details of the priority trigger, refer to "PRIORITY BROADCAST FUNCTION" on p. 34 and "INPUT PRIORITY SCREEN" on p. 21.

(3) Trigger Status

The activated trigger numbers are highlighted.

(4) Zone Selection Status

The zone selection status is highlighted.

Audio signals are output from the selected zone output.

When the zone is selected with the front-mounted Zone selection button:	switch
When the zone is selected in manual mode (see p. 15):	protocol
When the zone is selected with the Zone control input:	control
When Emergency broadcast is being made with the Control input 1 through 4:	control [E]
When the zone is not selected:	none

Note

Zone selection is disabled during an emergency broadcast, allowing the broadcast to be made to all zones.

(5) Auto Sync checkbox

Check this checkbox to display the status in real time. If this checkbox is checked, the display will be automatically updated when this unit's status varies.

When this checkbox is unchecked, the display of this unit's status remains unchanged as it was first shown on the screen even if this unit's status varies.

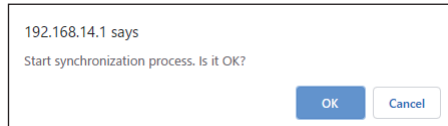
Note

If you change the screen or terminate the browser, the checkbox will be automatically unchecked.

Tip

Either confirmation dialog shown below is displayed when you click the checkbox. Then, click the OK button.

[When checking the checkbox]



[When unchecking the checkbox]



(6) Total volume control indication

Displays the sum of the set volume values. (See ["Software Master Volume Setting" on p. 14.](#))

(7) Sub output level indication

Displays the Sub output level of the processor. (See ["BLOCK DIAGRAM" on p. 41.](#))

The indication at the right side of the numerical value lights green when the sub output level is -42 dB or over, and lights black when it is less than that.

(8) Error indication

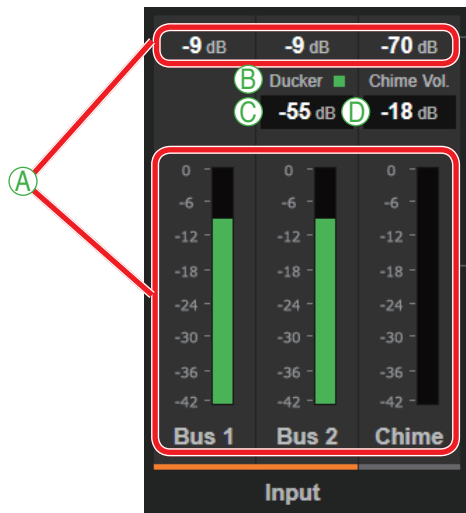
Appears in red when the following irregularity occurs inside this unit.

Over Current: Indicates that the overcurrent protection circuit is working as an overcurrent flows through the speaker output.

Thermal Protect: Indicates that the thermal protection circuit is working.

(9) Input display section

Displays the operation statuses and the setting contents of BUS 1, BUS 2, and chime.



A. Operation status display

Displays the operation statuses of BUS 1, BUS 2, and chime by means of numerical values and green bar graphs.

B. Ducker processing indication

Lights green when the Ducker is being processed, and lights black when not being processed.

C. Ducker depth indication

Displays the Ducker depth set at this unit.

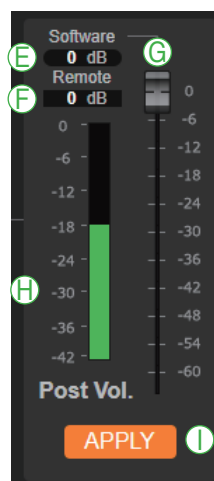
D. Chime volume indication

Displays the chime volume value set at this unit.

(10) Software master volume/Remote master volume

Used to set the software master volume value and display the set contents. (See ["Adjusting the software master volume" on p. 14.](#))

Also, used to display the remote master volume setting.



E. Software master volume display

Displays the set software master volume value.

F. Remote master volume display

Displays the set remote master volume value.

G. Slider

Used to set the software master volume value.

Note

This unit's volume setting will not change if you only operate the slider. Click the APPLY button (I) to apply the setting to this unit. Similarly, take the same procedure during Auto Sync.

H. Post vol. level meter

Displays the signal level that has been adjusted by the software master volume, remote master volume, and EQ processing.

I. APPLY button

Click this button to apply the set value of the software master volume to this unit.

(11) Main output level indication

Displays the main output level of the processor. (See "[BLOCK DIAGRAM](#)" on p. 41.)

(12) Master volume setting value

Displays the set value of this unit's master volume control knob.

(13) AMP Module I/O indication

Displays the input/output levels of this unit's amplifier module. (See "[BLOCK DIAGRAM](#)" on p. 41.)

(14) Manual checkbox

Used to switch the mode between Standard and Manual. (See "[Manual Mode](#)" on p. 15.)

(15) Destination setting display

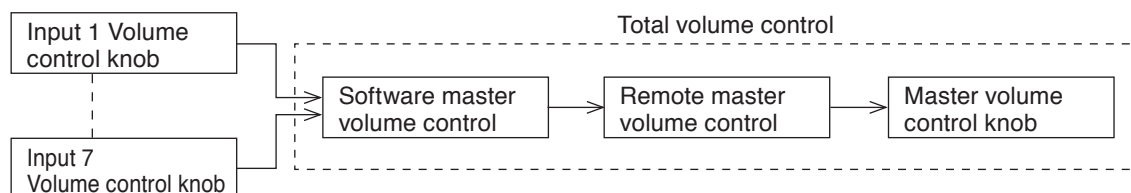
Displays to which each audio input is sent, BUS 1 or BUS 2. The destination is indicated above each audio input name.

7.2. Software Master Volume Setting

7.2.1. Volume adjustment

This unit's volume value can be adjusted in 4 stages as described below.
The values adjusted with each volume control are summed.

- Inputs 1 to 7 volume control knobs
- Software master volume control
- Remote master volume control
- Master volume control knob



Note

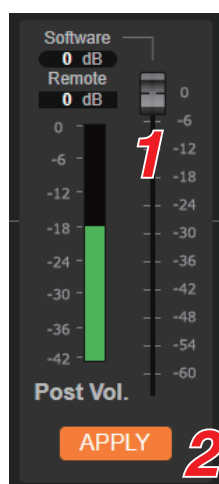
If any one of the volume controls is set to the minimum, no sound is output even if other volume control is set to the maximum. If you intend to adjust the volume value with the Software master volume control or the Remote master volume control, adjust the volume value using the master volume control knob in advance. The value adjusted with the master volume control knob is the adjustable upper limit.

When set to the Emergency broadcast, the broadcast is made at the maximum level regardless of the set values of the master volume, software master volume, and remote master volume^{*1}. Also, the chime is sounded at the maximum volume, and the characteristics of the EQ, tone control, and bass control are made flat.

The front-mounted emergency broadcast indicator lights during emergency broadcast, making the Emergency control output terminal closed.

^{*1} Volume control knobs for each input remain effective.

7.2.2. Adjusting the software master volume



Step 1. Adjust the volume value with the slider.
The display varies depending on the slider position.

Step 2. Click the APPLY button.
The set value is applied to this unit.

Note

The value is not reflected to this unit unless you click the APPLY button. Similarly, take the same procedure during Auto Sync.

7.3. Manual Mode

7.3.1. What is manual mode?

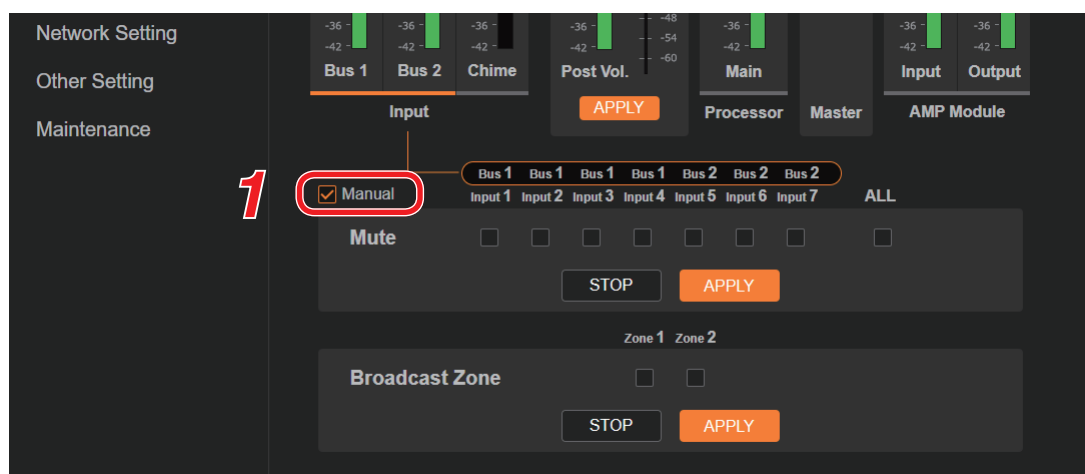
This unit features a function to manually mute the audio input without using the control input and the voice detection.

The mode in which the priority broadcast is made by using the control input or the voice detection as a trigger is referred to as the Standard mode, while the mode in which it is made muting the audio input from the browser without using the control input and the voice detection as a trigger is referred to as the Manual mode.

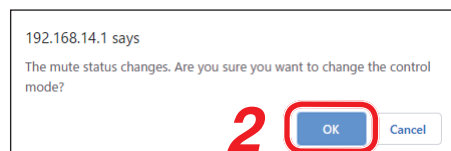
Use the Manual mode to confirm the unit operation.

In manual mode, you can also select the broadcast zone by manual. (See ["Selecting a zone in manual mode" on p. 16.](#))

[Switching the mode between Standard and Manual]



Step 1. Check the checkbox for Manual.
A confirmation dialog is displayed.

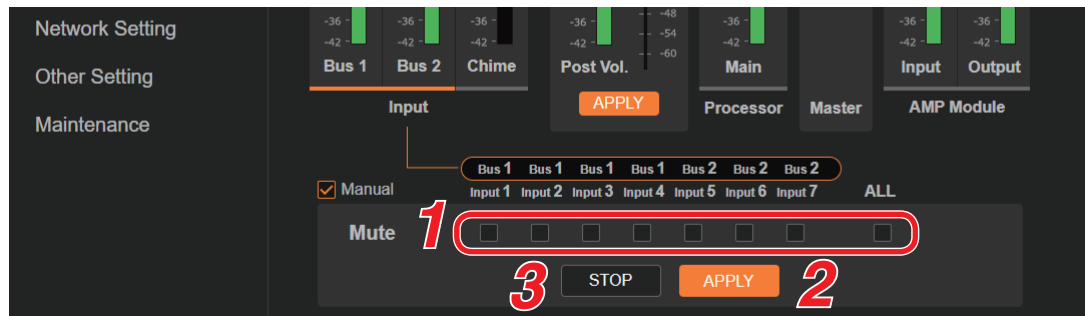


Step 2. Click the OK button.
The mode switches to the Manual mode, displaying the checkboxes for selecting audio signals to be muted.

Tip

Unchecking the checkbox switches the mode to the Standard mode.

[Muting the audio input in the Manual mode]



Step 1. Check the checkbox for the audio input to be muted.
When muting all audio inputs, check the checkbox for ALL.
Similarly, uncheck the checkbox for ALL when muting no audio inputs.

Step 2. Click the APPLY button.
The checked audio input will be muted at this unit.

Tip

The normal broadcast continues and the mute is performed according to the normal setting until the APPLY button is clicked.

Step 3. To release mute, click the STOP button.
Clicking this button releases muting the checked audio inputs at this unit, resuming the normal broadcast and performing the mute according to the normal setting.

7.3.2. Selecting a zone in manual mode



Step 1. Check the checkbox of the zone to select.

Step 2. Click the APPLY button.
The zone of which checkbox is checked is selected.

Tip

The zone selection will not be cancelled even if you perform the following operations while the zone is selected. Selection operation using the browser takes precedence.

- Pressing the front-mounted corresponding zone selection button.
- Selecting the zone using the rear-mounted corresponding zone control input terminal.

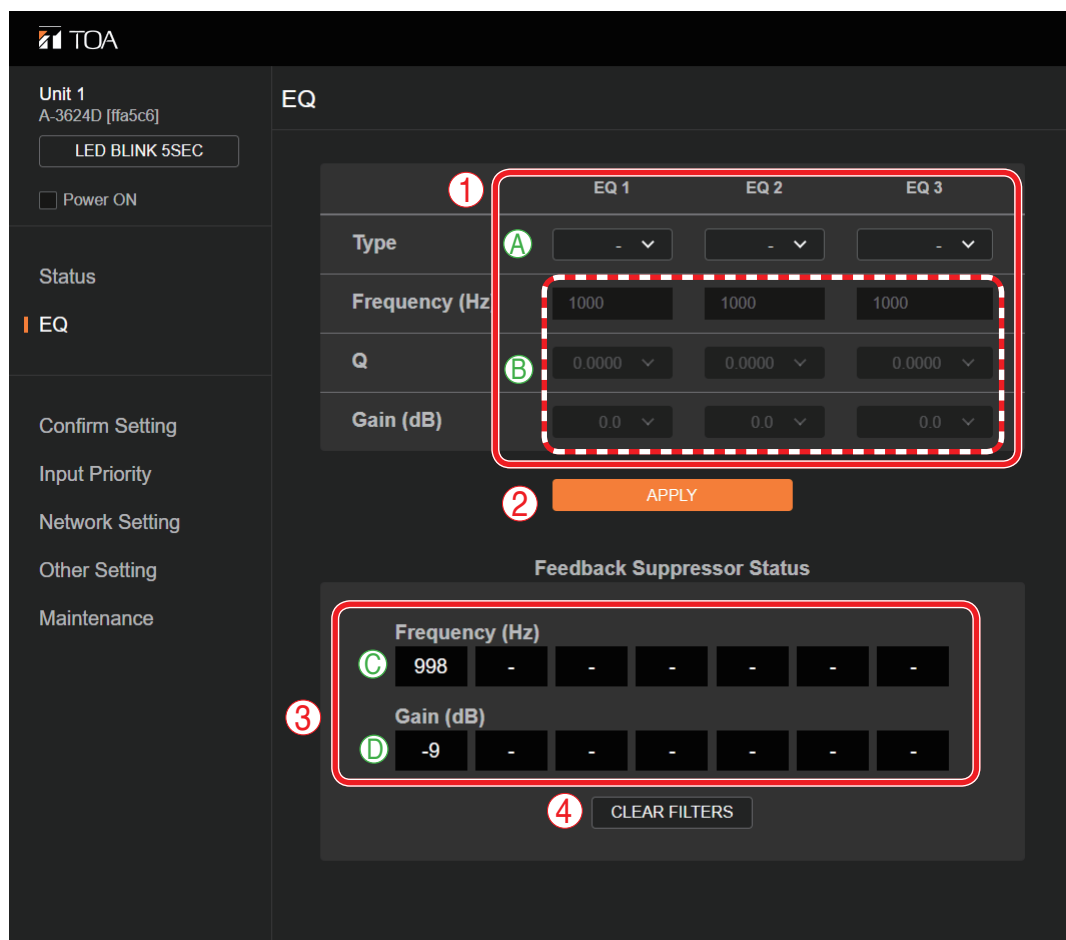
Step 3. To cancel the selection, click the STOP button.
Selection is cancelled.

Tip

The check mark in the checkbox remains displayed even if selection is cancelled.

8. EQ SCREEN

On the EQ screen, you can configure the parameters of the equalizer (3 points), and also confirm the operation contents of the Dynamic feedback filters function.



(1) PEQ/HPF/LPF setting section

Set the parameters of the PEQ, HPF, and LPF.

	Name	Content
A	PEQ/HPF/LPF selection	Select the setting item from PEQ, HPF, LPF, or - (Not used). Factory default setting: - (Not used)
B	Parameter setting	Set the parameters of Frequency, Q, and Gain. The appended table below shows the setting range. Note When HPF or LPF is selected from the PEQ/HPF/LPF selection, Gain cannot be set.

[Setting range]

Setting item	Setting content	Setting range
PEQ	Frequency (Hz)	20 – 20000
	Q	0.267 – 69.249
	Gain (dB)	–15.0 to 15.0, 0.1 dB steps
HPF	Frequency (Hz)	20 – 20000
	Q	0.5 – 2.563
LPF	Frequency (Hz)	20 – 20000
	Q	0.5 – 2.563

(2) APPLY button

Sends the set contents to this unit.

(3) FBS function (Feedback suppressor function) display section

This unit employs a built-in FBS function which is continuously operating. Whenever a feedback point is detected, the FBS function decreases the gain at the feedback frequency, eliminating the feedback.

This display section shows the current operation status of the FBS function.

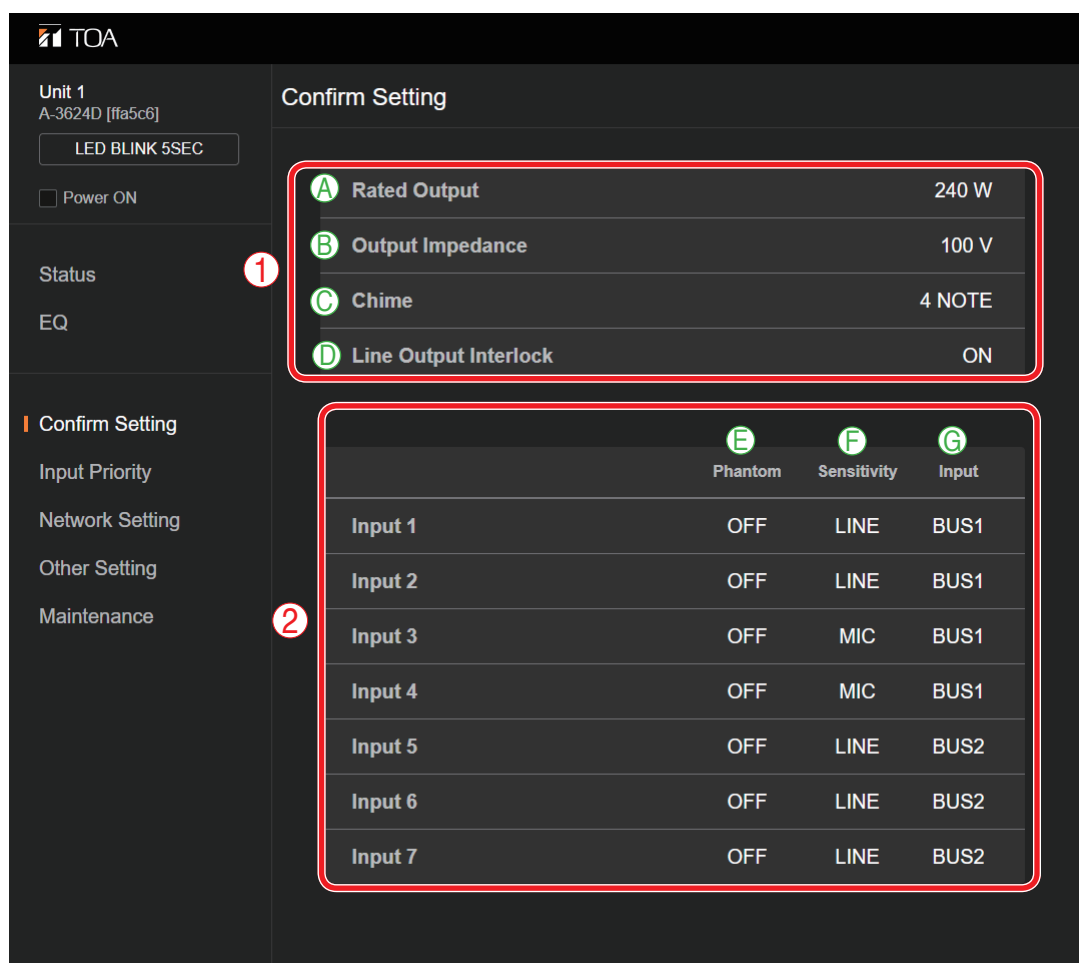
	Name	Content
C	Frequency (Hz)	Displays up to 7 feedback frequencies in the boxes from left in order of the feedback occurrence. When the 8th feedback occurs, its frequency will overwrite the feedback frequency that occurred earliest.
D	Gain (dB)	Displays the attenuated gain to eliminate the feedback for each detected feedback frequency.

(4) CLEAR FILTERS button

Clears all points at which feedback is suppressed, erasing the contents displayed in the FBS function display section.

9. CONFIRM SETTING SCREEN

This unit's setting contents are displayed on the Confirm setting screen.



(1) Unit setting

Displays this unit's setting contents.

	Name	Content
A	Rated Output	Displays this unit's rated output power.
B	Output Impedance	Displays the set output impedance. [Setting range] 70 V: High impedance (Factory default setting) 8 ohm: Low impedance (In the case of A-3606D) 4 ohm: Low impedance (In the case of A-3612D, A-3624D, and A-3648D)
C	Chime	Displays the set type of chime tone. [Setting range] 4 Note: 4-note chime (Factory default setting) 2 Note: 2-note chime 1 Note: 1-note chime None: Not used
D	Line output interlock	Displays the setting of the line output interlock switch. [Setting range] OFF: Signals are output from the Line output jacks 1 and 2 regardless of zone selection. (Factory default setting) ON: Signals are output from the Line output jack 1 when the Zone 1 is selected and from the Line output jack 2 when the Zone 2 is selected.

(2) Input setting

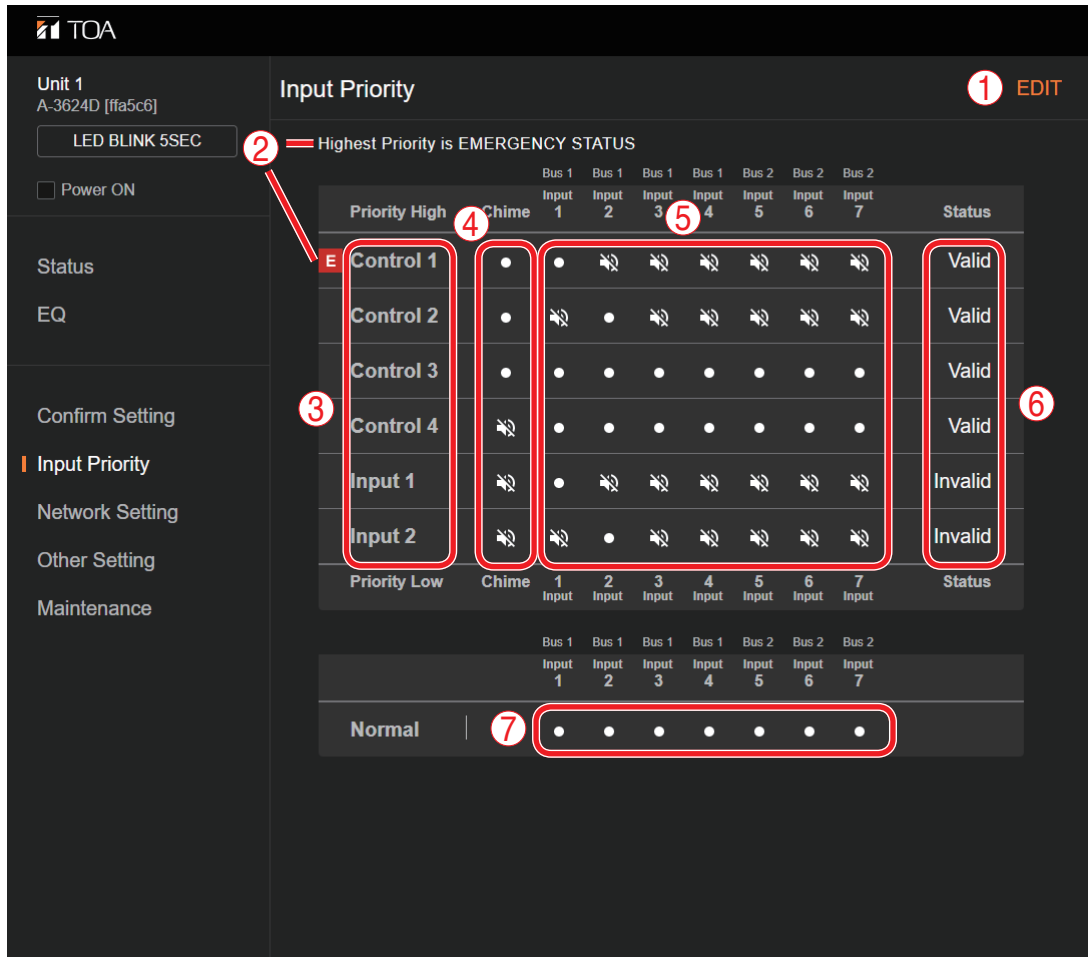
Displays the setting contents of this unit's each input.

	Name	Content
E	Phantom	<p>Displays the setting related to the phantom power use.</p> <p>[Setting range] OFF: Not used (Factory default setting) ON: Use</p> <p>Tip Inputs 5, 6 and 7 are fixed to OFF.</p>
F	Sensitivity	<p>Displays the input sensitivity.</p> <p>[Setting range] LINE: -20 dB MIC: -60 dB</p> <p>[Factory default setting] INPUTs 1 and 2: MIC INPUTs 3 and 4: MIC (fixed) INPUTs 5 and 6: LINE INPUT 7 LINE (fixed)</p>
G	Input	<p>Displays to which each audio input to send, BUS 1 or BUS 2.</p> <p>[Setting range] BUS 1, BUS 2</p> <p>[Factory default setting] INPUTs 1 through 4: BUS 1 (fixed) INPUTs 5 and 6: BUS 2 INPUT 7: BUS 2 (fixed)</p>

10. INPUT PRIORITY SCREEN

The setting contents of the priority broadcast function are displayed on the Input priority screen. Also, you can edit the setting contents. (See ["PRIORITY BROADCAST FUNCTION"](#) on p. 34.)

10.1. When Displaying the Setting Contents



(1) EDIT button

Click this button when editing the setting contents. (See ["Switching to the edit screen"](#) on p. 22.)

Clicking this button places the screen in editable state. (See ["When Editing the Setting Contents"](#) on p. 23.)

(2) EMERGENCY MODE display

If the highest priority broadcast is set to Emergency broadcast, the "Highest Priority is EMERGENCY STATUS" indication and **E** are displayed in these positions. (See ["When Editing the Setting Contents"](#) on p. 23.)

(3) Trigger name (See ["PRIORITY BROADCAST FUNCTION"](#) on p. 34.)

Displays 6 names of the control inputs or audio inputs that work as triggers.

Shown below are the displayed names.

- Controls 1 through 4
- Inputs 1 and 2

These names are displayed in descending order of priority levels from top to bottom.

(4) Chime ON/OFF setting

Displays ON or OFF setting of the chime sound when the control signal that works as a trigger is input.

- When sounding the chime: ●
- When not sounding the chime: ●

(5) Mute setting

Displays the setting whether or not to mute each audio input when the control signal or audio signal that works as a trigger is input.

When not muting: ●

When muting: 🚫

(6) Status display

Displays Valid or Invalid status of the trigger. The priority broadcast function does not operate by the trigger set to Invalid even if it is entered.

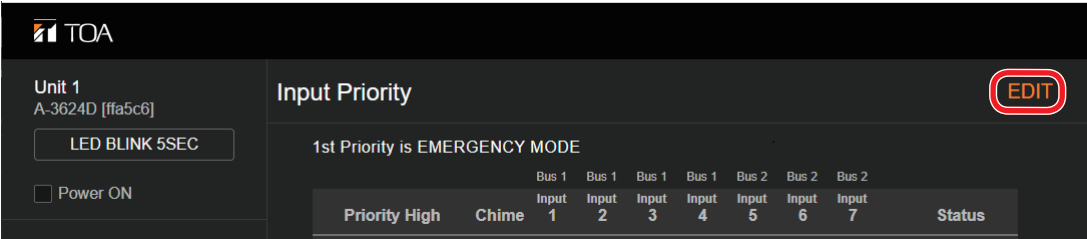
(7) Normal display

Displays the mute setting when no trigger is entered (normal broadcast).

When not muting: ●

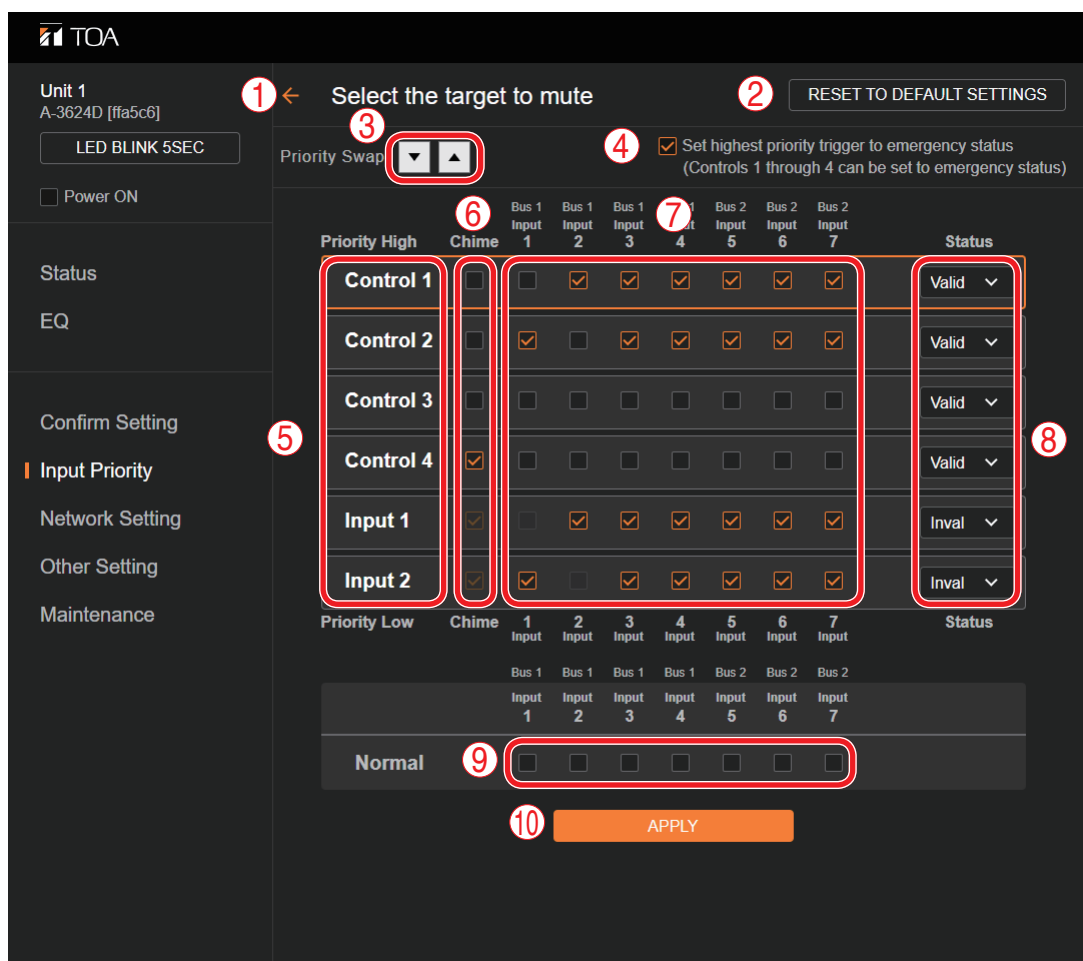
When muting: 🚫

10.1.1. Switching to the edit screen



Step: Click the EDIT button.
The screen becomes in editable state.

10.2. When Editing the Setting Contents



(1) Back arrow

Returns the screen back to the display of the setting contents. (See ["When Displaying the Setting Contents"](#) on p. 21.)

(2) [RESET TO DEFAULT SETTINGS] button

Returns the set contents to the factory default settings.

(3) Priority level setting button

Changes the priority level of the trigger.

Designate the trigger name (5) of which priority level to be changed by clicking on it, then clicking this button allows you to change the priority level.

When making the priority level higher: Click the ▲ icon.

When making the priority level lower: Click the ▼ icon.

(4) Emergency broadcast setting checkbox

Check this checkbox when setting the highest priority broadcast to the emergency broadcast.

(5) Trigger name

Note

Priority broadcast activated by way of the audio detection cannot be set to emergency broadcast.

Displays 6 names of the control inputs or audio inputs that work as triggers. (See "[PRIORITY BROADCAST FUNCTION](#)" on p. 34.)

Shown below are the displayed names.

- Controls 1 through 4
- Inputs 1 and 2

These names are displayed in descending order of priority levels from top to bottom.

To change the priority level, use the Priority level setting button (3).

(6) Chime OFF checkbox

Check this checkbox to make the chime not sound when the control signal that works as a trigger is input.

Note

When the audio detection is set as a trigger, the chime setting is fixed to OFF so that chime sound does not overlap with audio output. Therefore, you cannot change the checked status (Chime OFF) of the checkboxes for the Inputs 1 and 2, of which triggers are audio detection.

(7) Mute checkbox

Check this checkbox to mute each audio input when the control signal or audio signal that works as a trigger is input.

(8) Status setting pull-down menu

Used to set whether to enable or disable the priority broadcast function when a trigger is entered. The priority broadcast function does not operate by the trigger set to be disabled even if it is entered.

To enable: Valid

To disable: Invalid

(9) Normal setting checkbox

Check this checkbox to mute each audio input when no trigger is entered (normal broadcast).

(10) APPLY button

Sends the set contents to this unit.

Clicking this button restarts the unit.

10.2.1. Sending the edited contents to this unit

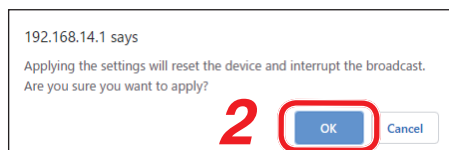
After all edits are completed, send the setting contents to this unit.

Note

Applying the setting causes this unit to be reset once, interrupting the broadcast during resetting.

Step 1. Click the APPLY button.

A confirmation dialog is displayed.



Step 2. Click the OK button.

The edited contents are applied to this unit.

11. NETWORK SETTING SCREEN

Perform the network and user account settings on the Network setting screen.

The screenshot shows the TOA Network Setting screen. On the left is a sidebar with options: Unit 1, LED BLINK 5SEC, Power ON, Status, EQ, Confirm Setting, Input Priority, Network Setting (highlighted), Other Setting, and Maintenance. The main area is titled 'Network Setting' and contains two sections: 'Equipment Information' and 'Network Setting'. The 'Equipment Information' section has a 'Name' field with 'Unit 1' entered. The 'Network Setting' section has two radio buttons: 'Obtain an IP address automatically' (selected) and 'Use the following IP address'. Below these are fields for 'IP Address' (192.168.14.1), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (0.0.0.0), and 'Port Number' (80). Below the 'Network Setting' section is an 'Account' section with three fields: 'User ID' (admin), 'Password' (masked with dots), and 'Confirm Password' (masked with dots). At the bottom right is an 'APPLY' button. Numbered callouts are: 1 points to the 'Name' field; 2 points to the 'Network Setting' section; 3 points to the 'Account' section; and 4 points to the 'APPLY' button.

(1) Equipment Information

Enter the equipment name between 1 and 16 characters.
Factory default setting: Unit 1

Notes

- This name is case-sensitive.
- The following symbols and blank spaces can be used.
· - _

(2) Network Setting

Used to perform the IP address setting.

When acquiring an IP address automatically:

Click the "Obtain an IP address automatically" radio button.

Note

This procedure cannot be used if your pc's OS is earlier than Windows 10.

When setting an arbitrary IP address:

Click the "Use the following IP address" radio button, then enter "IP Address," "Subnet Mask," "Default Gateway," and "Port Number."

Note

You will not be able to log in this unit if you forget the set contents. Be sure to make a note of the set contents.

Tip

- Settable Port Number: 80, 1024 — 65535
- When you do not use "Default Gateway," set "Default Gateway" to "0.0.0.0".

(3) Account

Set the user account.

	Name	Description
A	User ID	Enter a user name between 4 and 8 characters.
B	Password	When changing the password, enter a new password between 4 and 8 characters.
C	Confirm Password	Re-enter the new password to confirm when changing the password. Enter the same password as above.

Notes

- You will not be able to log in this unit if you forget the set contents. Be sure to make a note of the set contents.
- User ID and password are case-sensitive.
- The following symbols can be used.
· - _

(4) APPLY button

Sends the set contents to the unit. (See below.)

Tip

You can reactivate this unit with only the network setting and user account set to the initial values. The procedure is as follows.

Step 1. Unplug the AC cord from the inlet.

Step 2. Plug the AC cord into the inlet while pressing down the unit's power switch.

This unit is activated with the setting below.

IP address: 192.168.14.1

User name: admin

Password: guest

Note

The unit is activated with other settings remaining unchanged, but you can change them on each setting screen. If you disconnect the AC cord from the inlet without changing the network setting and user account setting, they will return to the original settings.

11.1. Sending the Edited Contents to This Unit

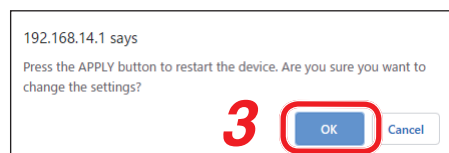
Note

Applying the setting causes this unit to be reset once, interrupting the broadcast during resetting.

Step 1. Enter the setting contents into the "Equipment Information," "Network Setting," and "Account" fields as needed.

Step 2. Click the APPLY button.

A confirmation dialog is displayed.

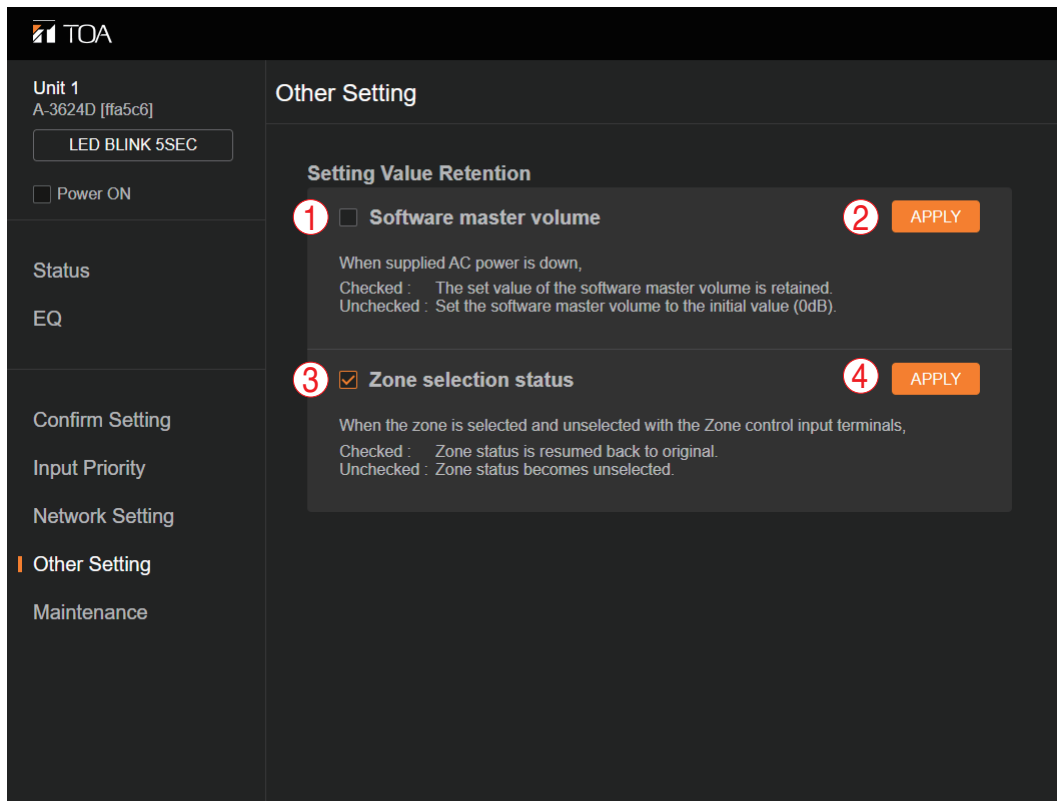


Step 3. Click the OK button.

The set contents are sent to this unit, then, this unit will be restarted according to the new network setting.

12. OTHER SETTING SCREEN

Perform the software master volume setting value retention and the zone selection status setting on the Other setting screen.



(1) Checkbox for retaining the set value of the software master volume

You can perform the set value retention ON/OFF of the software master volume and the zone control method setting.

Note

Be sure to click the APPLY button (2) after you have changed the setting. Otherwise, the setting content is not reflected in the unit.

Tips

- While the unit is energized (p. 3), the set value of the software master volume is retained regardless of the checkbox status.
- When you do not retain the setting, click the APPLY button (2) with the checkbox unchecked. The set value of the software master volume returns to 0 dB (factory default setting) when power is energized again after power supply to this unit was stopped with the checkbox unchecked.

(2) APPLY button

Click this button to apply the checkbox (1) setting for retaining the software master volume in the unit.

(3) Front-mounted zone selection button operation memory checkbox

Click the APPLY button (4) with the checkbox checked to maintain the zone in selected state even if the rear-mounted zone control input terminal is opened after being closed while the zone is being selected with the front-mounted zone selection button.

When a checkmark is placed in the box, the zone selection status is kept maintained regardless of the status of the rear-mounted zone control input terminal while the zone is being selected with the front-mounted zone selection button.

Notes

- Be sure to click the APPLY button (4) after you have changed the setting. Otherwise, the setting content is not reflected in the unit.
- A checkmark is placed by default. However, it is not placed if the firmware is updated from a version earlier than 1.06.01.

Tip

When the operation memory of the front-mounted zone selection button is not needed, uncheck the checkbox.

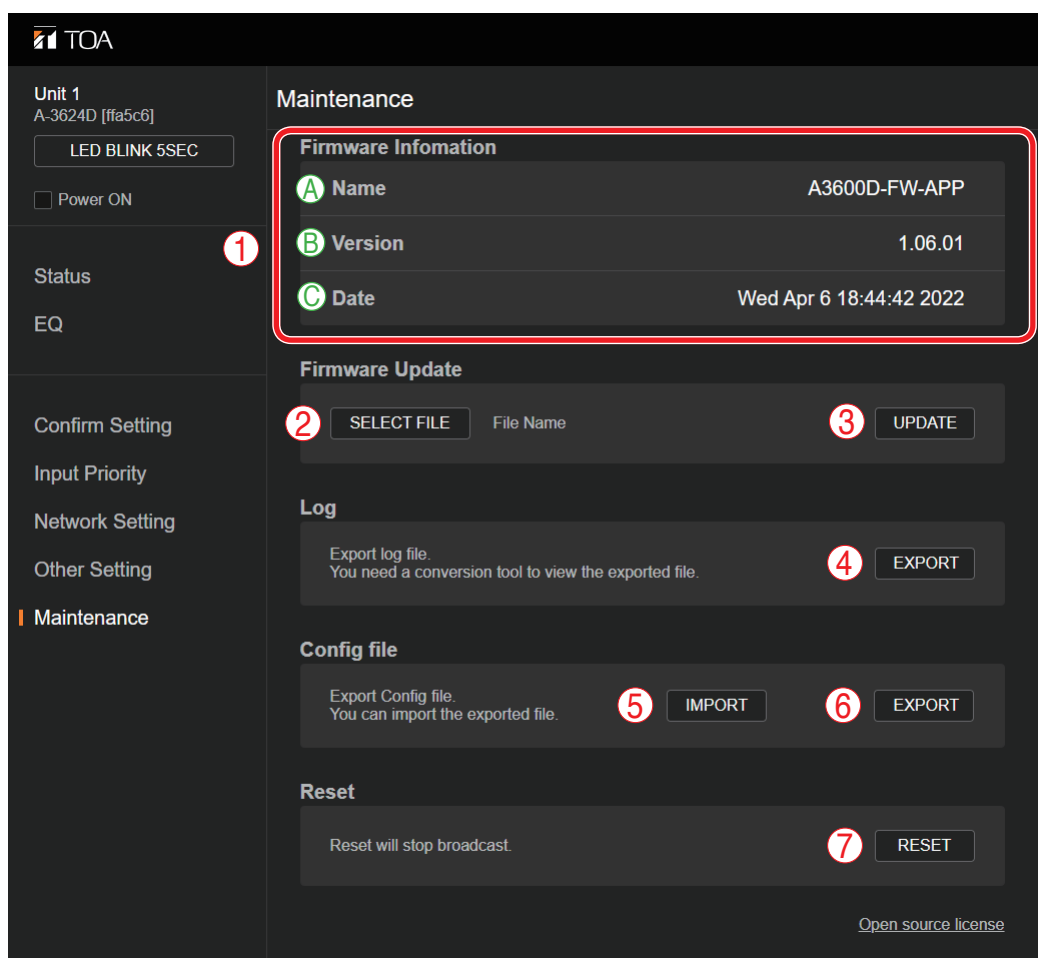
Clicking the APPLY button (4) with checkbox unchecked resets the zone selection status when the rear-mounted zone control input terminal is opened after being closed while the zone is being selected with the front-mounted zone selection button.

(4) APPLY button

Click this button to apply the settings of the Front-mounted zone selection button operation memory checkbox (3) to this unit.

13. MAINTENANCE SCREEN

Perform firmware update and log output on the Maintenance screen.



(1) Firmware Information

	Name	Description
A	Name	Displays the file name of the firmware.
B	Version	Displays the version number of the firmware.
C	Date	Displays the date of firmware creation.

(2) SELECT FILE button

Click this button to select the file to be updated when updating the firmware.

(3) UPDATE button

Updates the firmware. (See [p. 31](#).)

Notes

- Broadcast from this unit is interrupted during firmware update.
- The unit automatically restarts after update is complete.

(4) Log EXPORT button

Exports this unit's log file to the PC. (See [p. 31](#).)

(5) Config file IMPORT button

When changing the setting contents of the unit, click this button to select the desired configuration file.

Notes

- Broadcast from the unit will stop while the setting contents are being changed.
- When the change is complete, the unit automatically restarts.

(6) Config file EXPORT button

Exports this unit's configuration file to the PC. (See [p. 32.](#))

(7) RESET button

Resets this unit.

Note

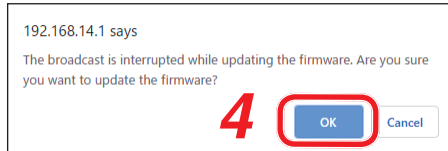
Broadcast from this unit is interrupted during reset.

13.1. Updating the Firmware

Step 1. Click the SELECT FILE button.
An Explorer screen is displayed.

Step 2. Select the firmware file to be updated.
The selected file name is displayed to the right side of the SELECT FILE button.

Step 3. Click the UPDATE button.
A confirmation dialog is displayed.



Step 4. Click the OK button.
Firmware update starts.
A confirmation dialog is displayed when the firmware update has finished.

Step 5. Click the OK button.
The firmware is updated.

13.2. Exporting the Log File

Step 1. Click the Log EXPORT button.
An Explorer screen is displayed.

Tip

The displayed log file name is set to "A-3600log.bin" by default.
Change it as needed.

Step 2. Select the destination folder to store the file, then click the Save button.
The unit's log file is exported and saved.

Notes

- Up to 3000 logs are stored when the power is energized. If the number of the logs exceeds 3000, the earliest log will be overwritten and deleted in order.
- When the power is not energized or the device is reset, only the most recent 600 logs are stored. The logs earlier than these 600 logs will be deleted.

Tips

- The logs inside this unit are not deleted even if they are exported.
- The exported log file is in binary format (extension: .bin).
- A conversion tool is required to see the exported log files. The conversion tool can be downloaded from the TOA DATA Library (<https://www.toa-products.com/international/>).

13.3. Importing and Exporting the Configuration File

13.3.1. Exporting the configuration file

Step 1. Click the Config file EXPORT button.
An Explorer screen is displayed.

Tip

The displayed configuration file name is set to "A-3600cfg.bin" by default.
Change it as needed.

Step 2. Select the destination folder to store the file, then click the Save button.
The unit's configuration file is exported and saved.

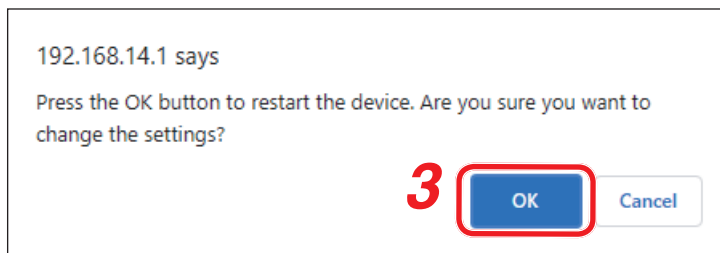
Tips

- The exported configuration file is in binary format (extension: .bin).
- A utility application is required to see the exported configuration files. The utility application can be downloaded from the TOA DATA Library (<https://www.toa-products.com/international/>).

13.3.2. Importing the configuration file

Step 1. Click the Config file IMPORT button.
An Explorer screen is displayed.

Step 2. Select the configuration file to be imported and click the Open button.
A confirmation dialog is displayed.



Step 3. Click the OK button.
Upload of the configuration file starts.
When the upload is complete, a confirmation dialog is displayed.

Step 4. Click the OK button.
The device setting contents are reflected.

Note

File in text format cannot be uploaded.

Tip

You can also select a log file and upload it.
In this case, only the device configuration information recorded in the log file will be uploaded.

14. PRIORITY BROADCAST FUNCTION

14.1. Priority Broadcast

Priority broadcast function refers to a function that mutes the designated audio signal by means of the control signal or audio signal as a trigger when it is input.

One of 6 priority levels can be assigned to the signal that works as a trigger. When multiple triggers are input, the one with higher priority assigned takes precedence.

The Priority broadcast indicator on the front panel is lit while the priority broadcast is in progress.

Two modes are available for the priority broadcast: Standard mode and Manual mode. The unit will start in Standard mode when energized.

The mode can be changed using the web browser. (See ["Switching the mode between Standard and Manual" on p. 15.](#))

14.2. Priority Broadcast Mode

14.2.1. Standard mode

When making the priority broadcast in Standard mode, the following 6 signals can be used as triggers to activate the priority broadcast.

- Control inputs 1 through 4 (contact)
- Audio detections 1 and 2 (audio input to Inputs 1 and 2)

The table below shows the difference between the control input and the audio detection

	Signal that functions as a trigger	Input that can be muted	Settable broadcast	Power on in power off state	Use of chime
Control input	Contact inputs (Contacts 1 through 4)	Inputs 1 through 7	Emergency broadcast Priority broadcast	Enabled	Enabled
Audio detection	Audio inputs (Inputs 1 and 2)	Input other than the one set to audio detection	Priority broadcast	Disabled	Disabled

You can edit the following items related to the priority broadcast on the browser for each trigger. Designated audio signals can be muted in the case of normal broadcast that is not activated by any trigger.

Item	Setting contents
Valid/Invalid	When set to "Valid," priority broadcast will start if the corresponding trigger is input.
Priority level	<ul style="list-style-type: none"> You can set 6 different levels of priority. However, you cannot assign the same priority level to the multiple triggers. It means only 1 priority level can be assigned to a single trigger. A trigger with the highest priority level assigned can be set to emergency broadcast. <p>Note Emergency broadcast can be assigned only to the control input.</p> <ul style="list-style-type: none"> If a higher-priority trigger is input while a priority broadcast is in progress, the higher-priority broadcast takes precedence, overriding the current broadcast. If a lower-priority trigger is input while a priority broadcast is in progress, the lower-priority trigger is ignored.
Chime ON/Chime OFF	<p>Sounds the set chime when the trigger set to "Chime ON" is input. However, no chime sounds when the trigger is ignored.</p> <p>Note Chime can be assigned only to the control input.</p>
Input to be muted/ Input not to be muted	<p>Mutes the input set to "Input to be muted" when the priority broadcast is activated.</p> <p>Note It may take a few seconds before the volume level returns to the original level after mute is released.</p>

Notes

- If the lower priority trigger that is so set to sound a chime is kept applied when the higher priority trigger stops, the chime will not sound even when the broadcast is switched to the lower priority one.
- Regardless of whether the priority level has been set or not, input signals to the BUS 2 are muted while the chime is sounding.

14.2.2. Manual mode

The designated audio signal can be muted from the browser in Manual mode.

Use this mode to check the unit operation. (See ["Switching the mode between Standard and Manual" on p. 15.](#))

The unit's Network connection confirmation indicator lights in the manual mode.

14.3. Emergency Broadcast

You can set the priority broadcast with the highest priority level to the emergency broadcast. (See "[When Editing the Setting Contents](#)" on p. 23.)

When set to the Emergency broadcast, the broadcast is made at the maximum level regardless of the set values of the master volume, software master volume, and remote master volume*. Also, the chime is sounded at the maximum volume, and the characteristics of the EQ, tone control, and bass control are made flat.

The front-mounted emergency broadcast indicator lights during emergency broadcast, making the Emergency control output terminal closed.

*Volume control knobs for each input remain effective.

Note

Priority broadcast activated by way of the audio detection cannot be set to emergency broadcast.

14.4. Normal Broadcast

The broadcast that stays in the state where the unit's power is ON with no trigger input is referred to as the Normal broadcast.

Note

Chime at normal broadcast cannot be set to ON.

14.5. Relationship between Priority Broadcast by Control Input/Emergency Broadcast and Power ON/OFF State

[When this unit is in power OFF state]

- This unit is turned ON when the Priority or Emergency broadcast starts.
- Even if you attempt to turn OFF the power* while the Priority or Emergency broadcast is in progress, this operation is invalid.
- This unit will be turned OFF when the Priority or Emergency broadcast terminates. However, if the higher priority broadcast by audio detection overlaps, the power will be turned OFF after this priority broadcast by audio detection is terminated.

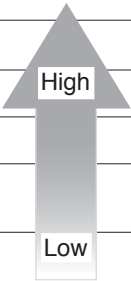
























[When this unit is in power ON state]

- This unit remains in power ON state regardless whether the Priority or Emergency broadcast starts or terminates.
- Even if you attempt to turn OFF the power* while the Priority or Emergency broadcast is in progress, this operation is invalid.



* Refers to the operation of pressing this unit's front-mounted power switch or clicking the Power ON checkbox to uncheck on the browser screen.

14.6. Factory Default Settings

[Factory default setting list]

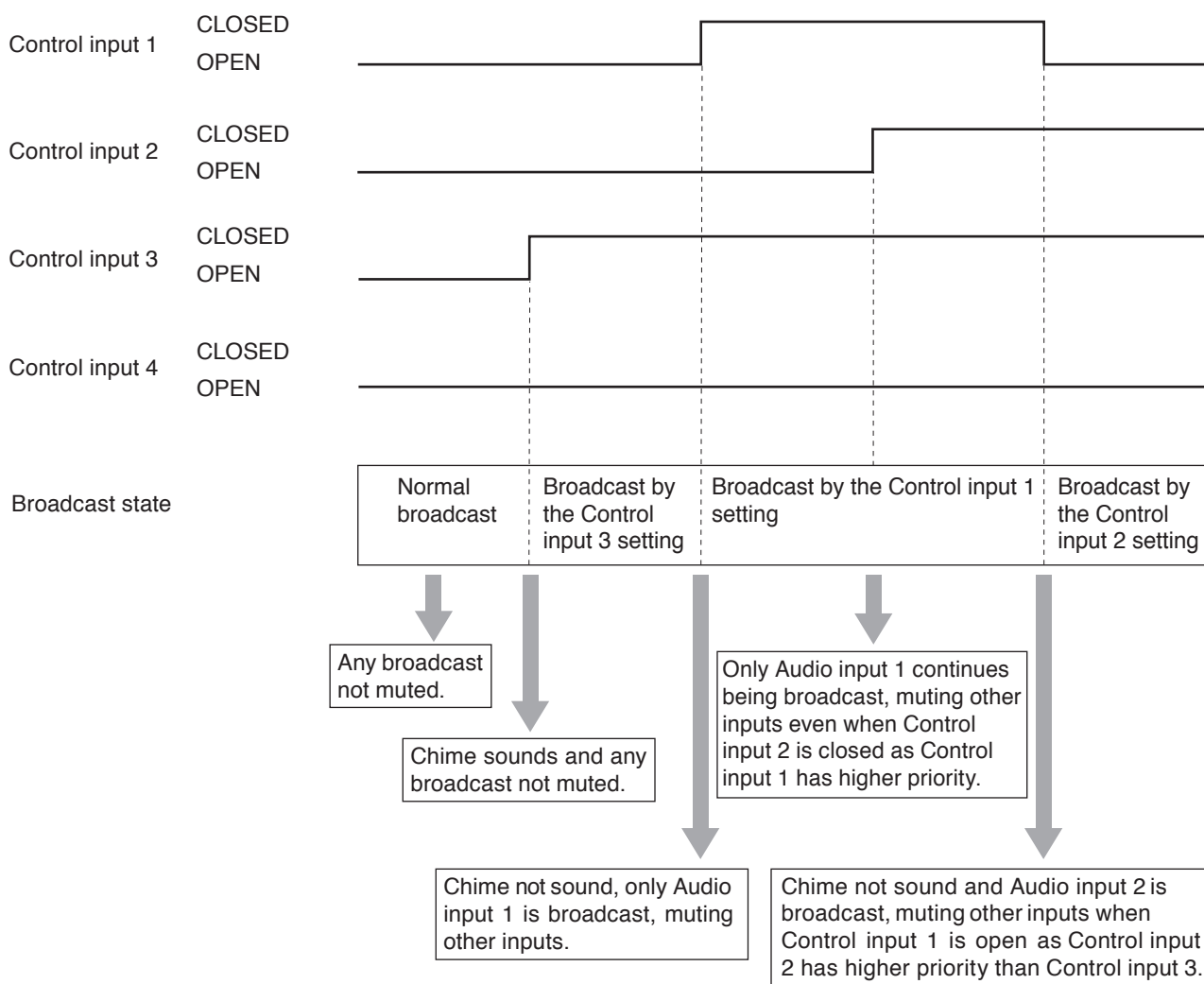
Trigger	Priority level	Emergency	Chime	Audio inputs							Status
				1	2	3	4	5	6	7	
Control input 1		Set		●							Valid
Control input 2		—	●		●						Valid
Control input 3		—	●	●	●	●	●	●	●	●	Valid
Control input 4		—		●	●	●	●	●	●	●	Valid
Audio detection (Input 1)	Low	—		●							Invalid
Audio detection (Input 2)		—			●						Invalid
Normal broadcast	—	—	—	●	●	●	●	●	●	●	—

Notes

- Inputs marked "" in the Chime field are set to "Chime OFF," while those marked "●" are set to "Chime ON."
- Inputs marked "" in the Audio input field are set to "Muted," while those marked "●" are set to "Not muted."
- The unit starts up in Standard mode.
- Gray cells indicate the set contents in them cannot be changed.
- Dash marks "—" show that nothing can be set.

Shown below are the operations by the factory default.

[Operation image]



14.7. Setting Examples and Operation Images

14.7.1. If the power is ON while being energized

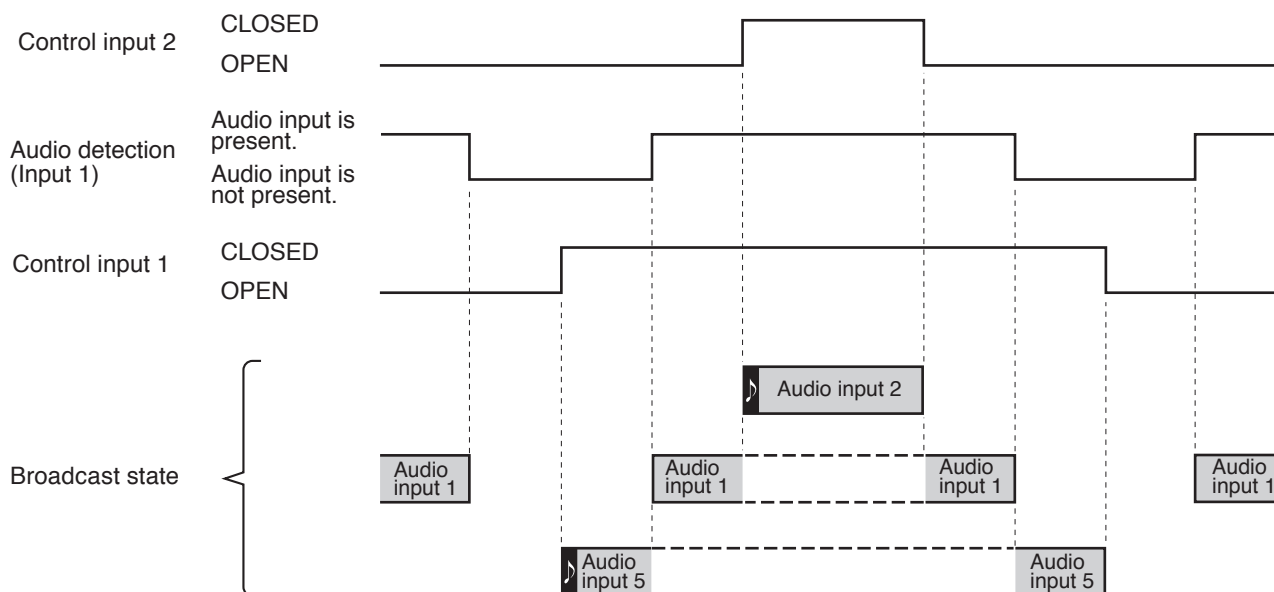
[Setting list]

Trigger	Priority level	Emergency	Chime	Audio inputs							Status
				1	2	3	4	5	6	7	
Control input 2		Not set	●	🔇	●	🔇	🔇	🔇	🔇	🔇	Valid
Audio detection (Input 1)		—	🔇	●	🔇	🔇	🔇	🔇	🔇	🔇	Valid
Control input 1		—	●	🔇	🔇	🔇	🔇	●	🔇	🔇	Valid
Control input 3		—	●	●	●	●	●	●	●	●	Invalid
Control input 4		—	🔇	●	●	●	●	●	●	●	Invalid
Audio detection (Input 2)		—	🔇	🔇	●	🔇	🔇	🔇	🔇	🔇	Invalid
Normal broadcast	—	—	—	🔇	🔇	🔇	🔇	🔇	🔇	🔇	—

Notes

- Inputs marked "🔇" in the Chime field are set to "Chime OFF," while those marked "●" are set to "Chime ON."
- Inputs marked "🔇" in the Audio input field are set to "Muted," while those marked "●" are set to "Not muted."
- Gray cells indicate the set contents in them cannot be changed.
- Dash marks "—" show that nothing can be set.

[Operation image]



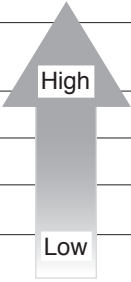
Notes

- Symbol "🔊" represents a startup chime of broadcast.
- Gray box " " represents the broadcast currently being output.
- Box with a dashed line " " represents the state that broadcast is activated but not being output because the priority level is low.

14.7.2. If the power is OFF while being energized

Even when the power is OFF while being energized, it is kept ON as long as the control input is closed. While the power is ON, the priority-assigned audio signals are output according to the priority levels. The power is not turned ON even if there is a voice-activated input while the power is OFF.

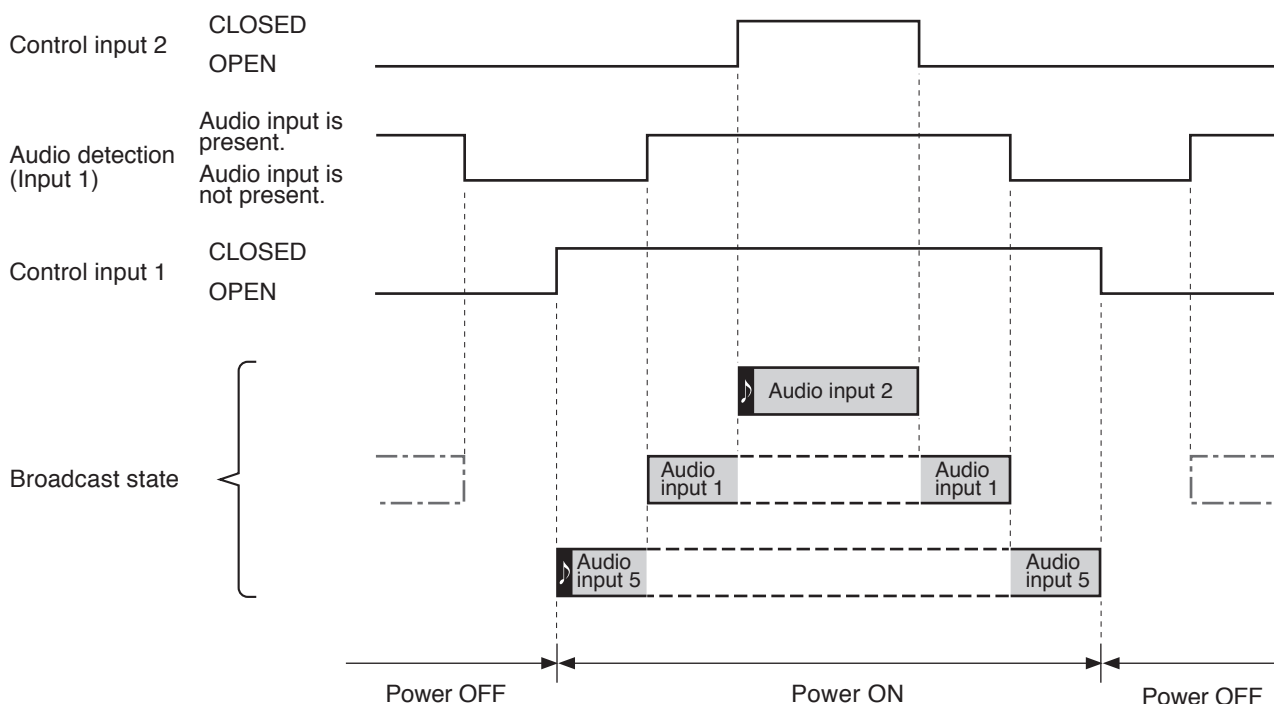
[Setting list]

Trigger	Priority level	Emergency	Chime	Audio inputs							Status
				1	2	3	4	5	6	7	
Control input 2		Not set	●	🔊	●	🔊	🔊	🔊	🔊	🔊	Valid
Audio detection (Input 1)		—	🔊	●	🔊	🔊	🔊	🔊	🔊	🔊	Valid
Control input 1		—	●	🔊	🔊	🔊	🔊	●	🔊	🔊	Valid
Control input 3		—	●	●	●	●	●	●	●	●	Invalid
Control input 4		—	🔊	●	●	●	●	●	●	●	Invalid
Audio detection (Input 2)		—	🔊	🔊	●	🔊	🔊	🔊	🔊	🔊	Invalid
Normal broadcast	—	—	—	🔊	🔊	🔊	🔊	🔊	🔊	🔊	—

Notes

- Inputs marked "🔊" in the Chime field are set to "Chime OFF," while those marked "●" are set to "Chime ON."
- Inputs marked "🔊" in the Audio input field are set to "Muted," while those marked "●" are set to "Not muted."
- Gray cells indicate the set contents in them cannot be changed.
- Dash marks "—" show that nothing can be set.

[Operation image]



Notes

- Symbol "🔊" represents a startup chime of broadcast.
- Gray box " " represents the broadcast currently being output.
- Box with a dashed line " " represents the state that broadcast is activated but not being output because the priority level is low.
- Box with a dash-dotted line " " represents the state that broadcast is not being output because the power is off though an audio detection trigger has been input.

Only in the following case, the power is ON in the period that only the input activated by voice is present. When the control input and the voice-activated input with higher priority overlap, the power remains ON until the voice-activated input is terminated after all control inputs are opened.

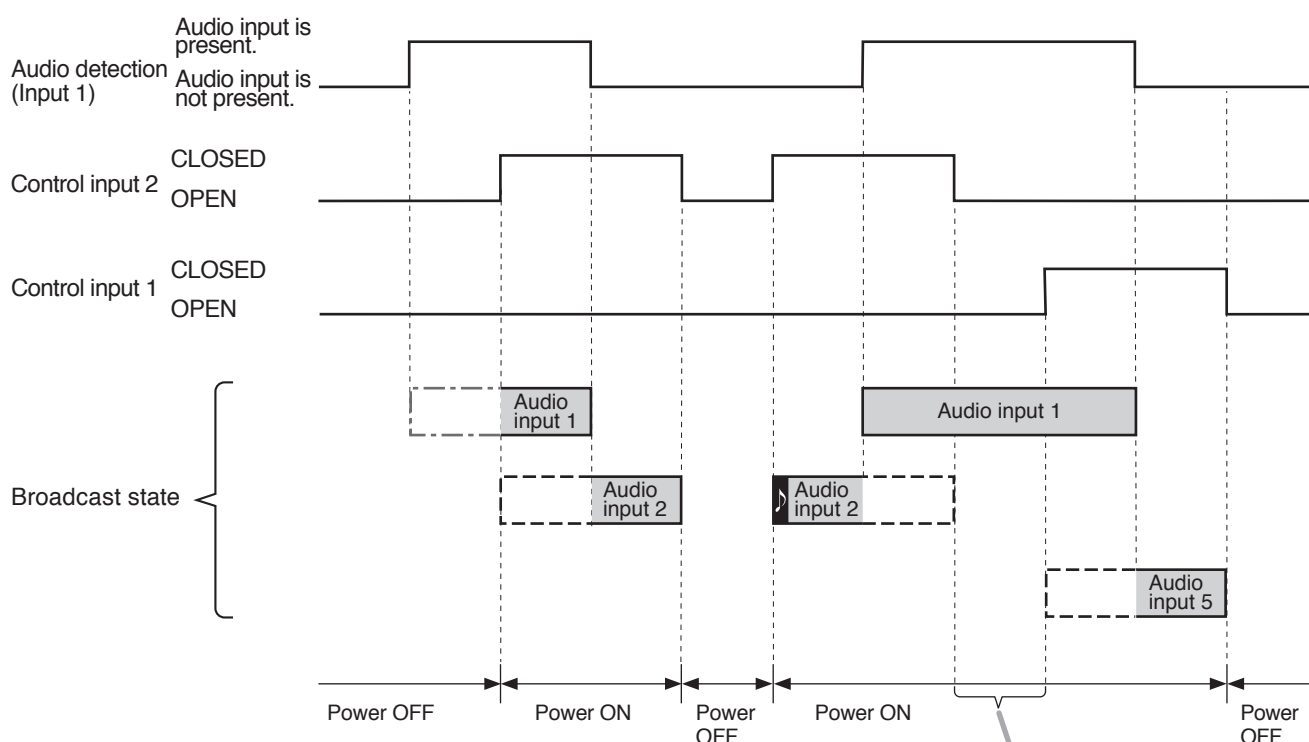
[Setting list]

Trigger	Priority level	Emergency	Chime	Audio inputs							Status
				1	2	3	4	5	6	7	
Audio detection (Input 1)	High	—	🔊	●	🔊	🔊	🔊	🔊	🔊	🔊	Valid
Control input 2		—	●	🔊	●	🔊	🔊	🔊	🔊	🔊	Valid
Control input 1		—	●	🔊	🔊	🔊	🔊	●	🔊	🔊	Valid
Control input 3		—	●	●	●	●	●	●	●	●	Invalid
Control input 4	Low	—	🔊	●	●	●	●	●	●	●	Invalid
Audio detection (Input 2)		—	🔊	🔊	●	🔊	🔊	🔊	🔊	🔊	Invalid
Normal broadcast	—	—	—	🔊	🔊	🔊	🔊	🔊	🔊	🔊	—

Notes

- Inputs marked "🔊" in the Chime field are set to "Chime OFF," while those marked "●" are set to "Chime ON."
- Inputs marked "🔊" in the Audio input field are set to "Muted," while those marked "●" are set to "Not muted."
- Gray cells indicate the set contents in them cannot be changed.
- Dash marks "—" show that nothing can be set.

[Operation image]



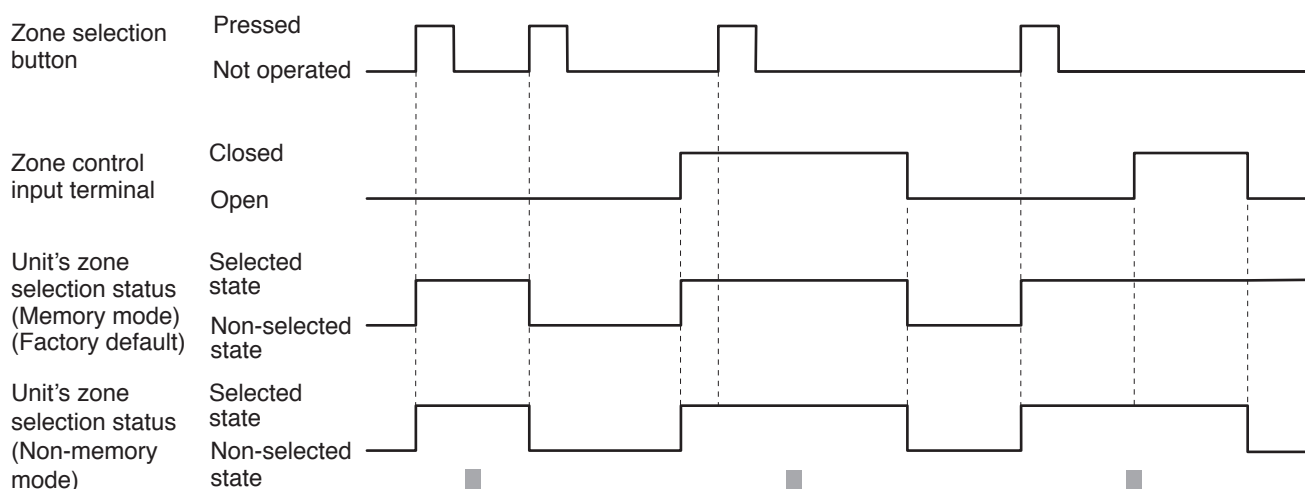
Notes

- Symbol "🔊" represents a startup chime of broadcast.
- Gray box " " represents the broadcast currently being output.
- Box with a dashed line " " represents the state that broadcast is activated but not being output because the priority level is low.
- Box with a dash-dotted line " " represents the state that broadcast is not being output because the power is off though an audio detection trigger has been input.

15. OPERATION IMAGE OF SPEAKER ZONE SELECTION

Speaker zone selection operation using the zone selection button and the zone control input terminal differs depending on the settings.

[Operation chart of the device's zone selection status]



Pressing the selection button places the target zone in selected state, and pressing it again places the zone in non-selected state.

Closing the control input terminal places the target zone in selected state, while opening it places the zone in non-selected state. The zone selected state, however, continues even if the selection button is pressed while the control input terminal is closed as the input terminal takes precedence over the button.

When the zone control input terminal is opened after being closed while the zone is placed in selected state by pressing the Zone selection button

Memory mode: Memorizes the zone selection button operation and maintains the zone in selected state.

Non-memory mode: Does not memorize the zone selection button operation and places the zone in non-selected state.

Tip

The selection statuses of the Zones 1 and 2 can be controlled individually.

16. BLOCK DIAGRAM

